

PACK RATS'



PACK RATS

CLUB CALL: W3CCX

MT. AIRY VHF RADIO CLUB, INC.

CHEESE BITS



MT. AIRY VHF RADIO CLUB, INC., PHILA., PA.

ARNS

50.2, 144.2, 432.1, 1296 MHz, WR3ACD - Repeater, 222.98/224.58 Mhz.

AFFILIATED CLUB: AMERICAN RADIO RELAY LEAGUE

Meetings: Third Thursday of Each Month at 8:00 P.M.

Southampton Free Library, 947 E. Street Road
Southampton, Pennsylvania 18966

VOLUME XX

SEPTEMBER 1978

NUMBER 9

THE PREZ SEZ

The final outdoor meeting of the season found many Pack Rats and their families and friends at "Cutlers Canyon" better known as the QTH of Doc, K3GAS, for the annual "Nostalgia Night." Slides of some recent Pack Rat events were shown - and though I don't know whether it can be called "nostalgia" or not, WB3CDE's excellent sound movie brought groans from the crowd as they relieved the agonies of that grueling operating event. Thanks, Doc, for the usual fine evening.

The September meeting will be back at the Southampton Free Library. This month WA3AXV and WA3NFV will split the bill on a technical presentation. Ron will talk about his 70 watt 220MHZ solid state amplifier and Dan is going to tell us how to keep our linear amplifiers linear. The return to indoor meetings should remind us all that cold weather is not far away. Time to line up those Autumn antenna parties and do things different for a change...fix up that antenna system BEFORE the snow flies. There are plenty of Pack Rats around to help, so don't be afraid to ask. Even if you don't plan to expand your antenna system this year, it might be a good idea to check out or replace the feedlines, check rotors, empty the water out of connectors, replace rusty hardware, or better yet install a W2EIF wood boom yagi for 220 FM.

It might be a good time to check out the rest of the station too. The September VHF QSO Party is the 9th and 10th. Why not fire up the old gear that's been gathering dust since last January. The explosions are usually a lot of fun to watch and the charred areas give a pretty good clue as to where to start troubleshooting!

Know any active VHF or UHF hams in the area who aren't Pack Rats? Know any HF operators who are fed up with the QRM and general mess on the low bands? Invite them to the next Pack Rat meeting! Our meetings, except for the Secret January Contest Meeting, are open to all and a heck of a lot of fun. Lets show the world how exciting it is on the bands above 50 Mhz. See you all in September (or on 1296 Mhz any Monday night at 9:15).

73, Bill, W3HQT

* * *

CHANGE OF ADDRESS: WB3KES - Douglas C. Simpson, 229 S. 7th St., North Wales, Pa. 19454
215-699-8127

CHANGE OF PHONE NUMBER: K3VYG - Gordon Vogt, 215-576-0273

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SWAP SHOP ITEMS - no charge.

DEADLINE FOR ARTICLES IS THE GENERAL MEMBERSHIP MEETING.

EDITOR:

W3CL, Harry B. Stein
2087 Parkdale Avenue
Glenside, Pa. 19038
215 - 887-5052

PUBLISHER/SUBSCRIPTION MANAGER:

K3GAS, Doc Cutler
7815 New Second Street
Elkins Park, Pa. 19117
215 - ME 5-1078

PRINTER:

WA3FOF, Ralph Alexander
2600 Cheltenham Avenue
Philadelphia, Pa. 19150
215-276-4185

TYPIST:

WA3TEM, Marsha Lissauer

TRUSTEE OF CLUB CALLS: W3CCX-WR3ACD:

WA3AXV, Ronald Whitsel
209 Frog Hollow Road
Churchville, Pa. 18966
215-355-5730

AWARDS CHAIRMAN:

W2EIF, Joseph Kilgore
#5 Sunnybrook Court
Stratford, N.J. 08084
609-783-9478

CLUB HISTORIAN:

W3CL, Harry B. Stein

OFFICERS: 1978-1979

PRESIDENT: W3HQT, Bill Olson
VICE-PRES: WA3NFV, Dan Mitten
COR. SECY: WB3HHO, Paul Randolph
REC. SECY: K3IGX, Dick Boyle
TREASURER: K3GAS, Doc Cutler

DIRECTORS:

W3HMU, Tony Souza (Ex-Officio)
W3IIT, Harry Brown (2 years)
WA3JUF, Dave Mascaro (2 years)
K3MWV, Dick Pierce (1 year)
WB2SZK, Randy Bynum (1 year)

MONDAY NIGHT NETS:

		<u>NET CONTROL</u>
144.2 MHZ	7:30 PM	W2EIF
50.2 MHZ	8:30 PM	W3CL
221.4/224.58 MHZ	9:00 PM	K3GAS
1296.3 MHZ	9:15 PM	W2EIF
432.1 MHZ	9:30 PM	K3IUU

FRIDAY NIGHT ATV NET:

439.25 MHZ 7:00 PM

PACK RAT REPEATER - WR3ACD - 222.98/224.58
Churchville, Pa.

1-302-478-2757

AMATEUR
and
ADVANCED
COMMUNICATIONS



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215-674-0300



LAFAYETTE RADIO ELECTRONICS
"Associate Store"
537 Easton Road
Horsham, Pa. 19044



Bruce Clark

CALENDAR OF COMING EVENTS
Syllabus by Lee, K3MXM

SEPTEMBER

- 3 YORK HAMFEST - York Airport at Thomasville, on U.S. Rt. 30 about 9 miles west of York, Pa. Plenty of Room, Fly Ins - A big and good Hamfest about 1 1/2 hours from Phila. Talk In 37/97 and .52 simplex.
- 4 LABOR DAY. Last Day off before the coming of Winter with all the ice, snow, sleet and big fuel bills. Appreciate these fine Autumn Days.
- 10 South Jersey Radio Association Hamfest and Auction - Ellisburg Circle, Rts. 70 and Kings Highway, Cherry Hill, N.J. A nice social Hamfest to eyeball and jaw-bone with all our friends from Jersey. Talk In - .52 simplex.
- 10 Wilkes-Barre Hamfest - Boston Store Parkade, 1st Block South Franklin Street. Talk In - .52 simplex.
- 10 Findlay Ohio Hamfest
- 14 Board of Directors Meeting - QTH WA3NFV, Dan Mitten, 108 Fernway Circle, Norristown, Pa. 215-277-0972. Directors and interested parties always invited.
- 17 Harrisburg Hamfest - Park and Shop Garage, Harrisburg, Pa.
- 20 Hamarama Preparation Meeting, Wednesday Evening. QTH, W3ZD, Dave Zimmerman.
- 21 General Club Meeting - First Indoor Meeting of the Season, Southampton Free Library, 8 P.M. Street Road, Southampton, Pa. A special double feature evening. Two speakers. WA3AXV, Ron Whitsel, 220 Mhz Amps and Pre-Amps. How they work, how to build, how to appreciate. WA3NFV, Dan Mitten, VHF Linears. Solid State Intermod Problems, distortion problems, Class A, Class B, Class C. The Mario Raffle, Frankie's Silent Auction, Refreshments. Visitors and Friends are always welcome.
- 22-24 National ARRL Convention, San Diego, California.
- 23-24 Tidewater Hamfest and Computer Show - "SCOPE" - Cultural and Convention Center, Norfolk, Virginia. Big indoor flea market. Information: Tidewater Radio Convention - P.O. Box 9371, Norfolk, Va. 23505
- 28 Hidden Transmitter Hunt - Starting Point Shopping Center, N.W. Corner York and Street Roads, Warminster- Pa. 7:15 P.M. This should be a good one as the hidee will be our Club President, Bill Olson, W3HQT.
- 30 Elmira Hamfest.
- 30 Mid-Atlantic States VHF Conference. Fiesta Motor Inn, Exit 27 Pa. Turnpike, Willow Grove, Pa. VHF Technical Talks, Many special illustrious speakers, Buffet dinner. Hospitality Suite, Special Rates. All day and evening. Chairman, W3ZD

OCTOBER

- 1 HAMARAMA Flea Market, Bucks County Drive-In Theater, Rt. 611 N. Warrington, Pa.
- 8 Gaithersburg Hamfest.

NOVEMBER

- 10-12 ARRL Hudson Division, Great Gorge, N.J.* * *

Special Note to those desiring CW practice. Philmont Radio Club has a net on Sun. morning at 10:30 A.M. DST on 3610 MHz with Bill Wiand, W3BIP/N3WW as net control. Bill will answer all calls at your speed. A very good project and I hope many Pack Rats join in this effort. Try CW - you'll like it...

NEW PRODUCTS OF INTEREST TO HAMS

By Lyn, W3NSI

1. Two Meter SS Amp A-1: SST Electronics is selling a 15 watt 2 mtr. PA in both kit form and also wired and tested. Unit uses 1 TRW transistor that can be driven to 15 watts out, with just 1 watt input. Kit is complete with heat sink, and contains instructions for adding a carrier operated T/R switch. Price \$30. Wired and Tested. \$50. P.O. Box 1, Lawndale, Calif. 90260.
2. Yaesu FT 225RD: Yaesu Electronics has just introduced their answer to the Kenwood TS700SP. The FT 225RD is a 2M all mode T/R with digital freq. display, covering 144-148 Mhz. There are a number of differences between the Kenwood and the Yaesu. The FT 225 RD has 25 watts output, with a front panel control to vary the power as required. Memory unit, tone burst, and noise blanker are standard on this radio. Price is expected to be in or just above the TS 700SP class. 613 Redna Ter., Cincinnati, Ohio 45215.
3. Receiver - 80/40 M CW: The Kantronics 8040-B receiver is a compact (6 x 6 x 3) lightweight receiver that covers the novice sections of the 80 and 40 meter CW bands. Unit operates on 2-9 V. batteries making it an ideal receiver for portable operation. A small transmitter will soon be available to match the receiver. Price \$80. 1202 E. 23rd St., Lawrence, Kansas 66044.

* * *

VHF/UHF REPORT

By Jo, W2EIF

The sporadic E season has been very short this year - at least in this part of the country I know of only 2 six meter openings so far this month. August there was an opening to the midwest and VE1 land, and on August 10 there was an opening to the West Coast.

Howie, WB2RBG/3 reports that FY7AS, who was contacted by many in July, was only running 2 watts from his location off the South American Coast.

The Perseids don't seem to have produced much, either on 2 meters or 220, as far as I know. Steve, K1FO reports that K9UVJ in Indiana is back on 220, and that WA8PKB isn't interested in getting his rig back on 220. K4GL has had personal problems which have prevented his being very active on 220.

The UHF contest (220 and up) was very interesting. I thought the activity was good on all bands (220 thru 1296). The weather conditions all thru the affair was terrible in the Phila. area, but contacts out to 300 miles were possible. I think it proved that these upper bands are good and usable under adverse conditions. I for one enjoyed the affair.

* * *

VISITORS AT THE AUGUST 17, 1978 MEETING

XYL WA3AXV - Lynne, Churchville, Pa.	XYL K3MXM - Peggy, Elkins Park, Pa.
XYL W3CL - Sylvia, Glenside, Pa.	XYL K3JJZ - Lorraine, Phila., Pa.
XYL K3IGX - Muriel, Phila., Pa.	XYL WA3NEV - Lucy, Norristown, Pa.
YL K3IGX - Beth, Phila., Pa.	XYL WB3KES, Wendy, North Wales, Pa.
XYL W3FQD, Mary, Churchville, Pa.	WB3DSK, Jane, Warminster, Pa.
XYL W3AJF, Lou, Phila., Pa.	WB3IHY, Joe, Phila., Pa.
XYL K3GAS, Loretta, Elkins Park, Pa.	

* * *

OFFICIAL BULLETIN NR 721 FROM ARRL HEADQUARTERS NEWINGTON CT AUGUST 17, 1978 TO ALL RADIO AMATEURS BT: Amateurs are cautioned to use FCC forms 610 dated in 1977 or later. Use of earlier forms can lead to such errors as issuance of a new call when the licensee desires to keep the current call, and so on. Forms can be obtained from any FCC office or from ARRL headquarters. In the latter case, a self addressed stamped envelope would be appreciated. BT

OFFICIAL BULLETIN NR 720 FROM ARRL HEADQUARTERS NEWINGTON CT AUG. 10, 1978 TO ALL RADIO AMATEURS BT: The 1978-1979 ARRL Net Directory, with full info. on over 600 traffic & emergency nets, is now ready for distribution. This attractive newly revised pamphlet lists nets by name, area and frequency. In addition, it tells how to check into a net, itemizes special Novice nets lists ARRL Numbered Radiograms, QN signals, and much more. For your free copy of this popular ARRL membership service, send an addressed envelope, at least nine by twelve inches in size, with forty one cents United States postage to ARRL NET DIRECTORY, 225 Main St., Newington, Ct. 06111. AR

SWAP SHOP

FOR SALE: 2 RCA AC operated FM portable base station type single frequency Xcvr units: - 15 watt with 16/76 xtals: -25 watt with 63/03 xtals. \$35 each.

CONTACT: Jim Beaver, W3AHZ
Phone: 215-886-8180

FOR SALE: Galaxy GT 550 and SC 550 with pwr supply, vox and 25 Khz calib. New final tubes- mint cond. \$375.

CONTACT: George Hautenchild, W3KD
Phone: 215-357-5091

FOR SALE: Motorola Motrack - 6 mtr. 100 watts. Noise blanker, 2 freq. accessories, manual. \$200. Drake TC-2 - transmitting converter, cables, manual (TR4, TR6 direct interface) \$250. KIM-I - Microprocessor, manual, connectors, demonstration Programs, cassette interface, complete documentation. \$175.

CONTACT: Ron Whitsel, WA3AXV
Phone: 215-355-5730 after 6 PM

FOR SALE: Autek QF-1 Audio Filter, peak, low pass, 80 DB notch. Mint. cond. \$55.

MFJ-16010-ST transmatch 160-10 meters, 200 watts - matches coax, end-fed wires, balanced lines. \$50.

CONTACT: Ric Janssen, K3QQ
Phone: 215-355-1980

FOR SALE: HQ 170 AC with manual. 1.8 thru 54 Mhz. AM, CW, SSB. \$150. Ameco Nuvistor Preamp PCL-P with instructions, 1.8 thru 54 Mhz. \$12. Hygain 4 element 6 meter beam model 64B with instructions. Used but very good cond. \$18. 14 AVS vertical beam 10 thru 40 mtres. with instructions, include radials and hardware from 14 Rmk kit. \$15. Heath monitorscope model HO-10 and manual. \$20.

CONTACT: Gordon Vogt, K3VYG
Phone: 215-576-0273

WANTED: 6 meter linear amplifier commercial or homebrew, minimum input power 500 watts. Call with details.

CONTACT: Howard Sherer, WB2RBG/3
Phone: 215-584-0280

WANTED: 2 meter transverter

CONTACT: Jim Ward, WA3AAJ
Phone: 215-887-1062

* * *

TID BITS

N3MW, Charley recently received #120 "600" award.

WB3JLF, Kico (Son of N3SM) now 13 years of age passed his General. Placed 4th in Maryland in Novice round-up. FB es congrats.

W3HQT operated WLXM at MIT on 25 story tower during the recent UHF Contest. Had a ball!

W3FQD, Dick Huntzinger home from hospital and recuperating nicely. He and Mary came to our social meeting at Doc's looking good.

The 2 meter band was open to the West during and after the net on Monday evening August 21st. WA3JUF, N3MW, WA3AXV and K3MWV were heard working WB9AKB (Mark) in Illinois.

ANNOUNCEMENT

The new plan for the 220 net on Monday nights at 9 P.M. as follows: The Monday before the regular meeting net control, Doc, K3GAS will come up on the Pack-Rat repeater and announce that he is QSY to 223.5 Mhz simplex and ask for call-ins on that frequency. This will be the plan for one night a month. On the August 21st net, Doc contacted 8 stations on 223.5 Mhz.

* * *

SPECIAL BUY - 220 Mhz Crystals

An order is being placed for 223.42 Mhz crystals to provide an additional simplex frequency for contest operation and liaison use on the higher UHF bands. Crystals will be \$4.00 each plus tax, or \$8.48 for each set. If a sufficient quantity is ordered, the price will be \$3.50/crystal plus tax. A refund will be made if we get the lower price. Orders will be taken until the September 21st Club Meeting. Crystals for other frequencies and other repeaters may also be ordered. Send a check for the correct amount to Harry Brown, W3IIT, 3012 Potshop Road, Norristown, Pa. 19403. Phone: 215-584-4846 for information.

(Thanks to Paul, WB3HHO)

Relying on the doctrine that a zoning ordinance is to be strictly construed, the Supreme Court has held that a 32' ham radio mast is permitted as a use accessory to a single family dwelling. Lord Appeal, 368 Pa. 121, 81 A. 2d 533 (1951).

An ordinance which sets a 35' height for structures cannot be applied to prohibit the erection of a 50' ham radio antenna, necessary for broadcasting over long distances. Appeal Schmigle v. Board of Adjustment, 114 Pitts. L.J. 117(1966). Note: The court indicated that an attempt to restrict ham radio antennas to a height less than necessary for effective long range communication would be unconstitutional. See also, Appeal of Slemenda, 115 Pitts. L.J. 223 (1967).

* * *

FROM N6NB'S AUGUST 1978 VHF NEWSLETTER
CONTROVERSIAL RULES

Since the write-up on the new contest in QST was attributed to N6NB, some people have assumed I wrote all the rules. Several UHFers called with polite and not-so polite expressions of dismay at some of the rules!

As anyone who has ever worked in a legislative or committee-based process knows, many, many changes occur between the initial idea and the emergence of the final product. Actually, many people have urged the ARRL staff to create a UHF contest over the years.

What your author did was to draft a proposed set of rules for such an event and "jawbone" the Contest Advisory Committee into voting for the event. "Jawbone" is a word used advisedly, by the way, since several HF contest enthusiasts on the committee strenuously opposed the idea of adding another activity for those esoteric ivory-cloud types who operate the UHF bands!

After it left the CAC, there were two major changes in the rules--one that I wholeheartedly supported and one that I reluctantly supported because it was obviously a necessary change.

One of the best ideas for the UHF contest came from K1ZZ, a high-ranking HQ staffer who is best known for his HF activities but who has an amazing familiarity with VHF matters. The suggestion to use longitude and latitude as the basis for multipliers was his--and I think if we get used to the system, we'll want to buy him a gold engraved map of the United States, divided into one-degree segments!

The other change was one nobody really liked, but saw as necessary. My original rule draft cut off 220 activity as 222.1 MHz, banning the most popular 220 FM channels. That would have made it virtually an SSB-CW contest, since the most popular 450 FM frequencies were also off limits. However, the fact is that 99 per cent of all 220 activity (100 per cent in some areas) is on FM. So the ARRL, an organization committed to serving all amateurs and not just one interest, had to choose between a contest that would be open only to the few and one open to the many. Obviously, it had to be opened up to everyone.

"Well, then, why didn't 446 MHz FM make it," I've been asked. The answer, of course, is that thanks to Oscar and those ubiquitous black boxes from England, there's plenty of SSB activity on 432--and little 446 FM activity in most of the country. When someone makes a black box for 220 SSB--and many hundreds of amateurs buy them--we can certainly have another look at the rules on 220. Your author has long had a homebrew kilowatt on 220 SSB, and recently published an article to encourage more 220 SSB activity. I would have every reason to favor an SSB contest. But unfortunately, until commercial gear is available for SSB, most 220 activity will remain on FM, a fact that couldn't be ignored.

Remember that any first-time contest has rough edges, and will need refining. Try it this weekend, and then forward your reactions to Tom Frenaye at ARRL headquarters. He'll send your views along to the CAC so we can study those refinements.
(EDITORS NOTE: The August 5-6 UHF Contest)

EAST COAST VHF SOCIETY

TWELFTH ANNUAL ANTENNA MEASURING CONTEST

July 23, 1978

432 MHz Results			*1296 MHz Results*		
CALL	ANTENNA DESCRIPTION	GAIN over dipole	CALL	ANTENNA DESCRIPTION	GAIN over isotropi
WA2ZZF	EIA Reference Antenna	7.7 db	WA2ZZF	Reference Horn	15.4 db
2RIW	4 x 19 el. insulated Yagi 6' stacking	18.6	WA2FGK	7 ft. Dish	24.2
2RIW	4 x 19 el. insulated Yagi 5' stacking	18.5	K2UYH	5 ft. Dish-adjusted feed point	21.1
2UYH	4 x 21 el. F9FT Yagi	18.2	W2EIF	4 ft. Dish	21.0
3HMU	4 x 13 el. insulated Yagi	17.0	K2UYH	5 ft. TV Dish	20.4
2RIW	19 el. insulated Yagi	14.3	K3BPP	35 in. Dish	19.1
1LJR	21 el. F9FT Yagi	14.1	W1JR	25 el. G3JVL loop Yagi- modified	18.4
1LJR	21 el. F9FT Yagi balun fed	14.1	WB2BYP	32 el. Collinear	17.1
2UYH	21 el. F9FT Yagi	13.8	K2RIW	26 el. loop Yagi - Spectrum international	16.9
B2BYP	16 el. KLM Yagi	13.6	WA2LSE	2 x 19 el. loop Yagi	15.9
B2BYP	40 el. Cushcraft Collinear	13.4	W1JR	2 x 15 el. J-Beam- slot fed Horn 16" x 21" aperture	13.9
B2BYP	80 el. Cushcraft Collinear	13.1	K3BPP	13 el. W2CQH Yagi	13.7
3HQT	4.2λ NBS Yagi	13.0	K1FO	13 el. Yagi- weathered 2 years	13.4
A2BQE/PA	15 el. Quagi	12.8	K1FO	19 el. loop Yagi	13.4
B2SZK	16 el. KLM Yagi- homebrew feed		WA2LSE	Polrad gain horn	12.8
A/PM	13 el. insulated Yagi	12.2	W1JR	EIA Reference antenna	12.2
1L	4.2λ NBS Yagi	11.4	W1GGM	EIA Reference antenna	11.4
3HMU	16 el. PDSS insulated Yagi	11.2	K2TKN	Dipole over ground	9.9
A2ZZF	13 el. Tilton Yagi	10.5	K3BPP		7.7
B2BYP	20 el. Cushcraft Collinear	10.3			
1LJR	1.2λ NBS Yagi	9.8			
3NCY	6 el. Quagi	4.4			

Thanks to Paul, WA2ZZF for the contest results.

* * *

2304 MHz Results

WA2ZZF	Reference Horn	13.0 db
2TKN	6 ft. Dish	26.8
1LJR	30 in. Dish	21.7
3HQT	29 in. Dish	21.3
3BPP	35 in. Dish - 1296 MHz feed	19.1
2PPZ	22 in. Dish	18.2
1LJR	Polrad gain horn	14.5
A2ZZF	Short backfire 2.35λ	13.0
1LJR	1λ cavity backed dipole	10.7
2PPZ	EIA Reference antenna	10.5
2TKN	Feed horn	10.2

From July 1978 NOTHEAST VHF NEWS:

New 23 cm beacon on air: WA4PGI in the Norfolk area is now operating a beacon on 1296.045 MHz (± 1 KHz) 24 hours a day. The output power is 300 mw. (Editors note; A reminder for anyone contemplating putting a beacon station on the air; the FCC requires some form of informal application for permission to place an unattended one way Amateur station in operation).

* * *

WORKING AT THE OTHER END OF THE SPECTRUM - ALMOST

by Ralph, WA3FOF

A couple of weeks back I received a call from Harry, W3CL who asked if I would be willing to help a friend of his put up an antenna. I told Harry that as long as I didn't have to stand on a roof or climb a ladder that I would be glad to render any assistance that I could.

On Sunday August 20th at 1PM I received a phone call from Ed Keener, W3AJS saying he was ready to raise the vertical starting at 4:30PM (Ed is fondly know as W3CL's "Nemesis"). I had visions of something that resembled an 18AVT/WB so I said sure I would be glad to help. Ed assured me that it wouldn't take too long to finish the job. I then called Carl, K3DLS and got him to join me as well as providing transport. He was looking forward to be a part of the old timers antenna raising party.

We arrived at Ed's QTH in Oreland, Pa. in good time. After an exchange of pleasantries, he escorted us around to the back of the house where we came face to face with the "MONSTER", designed to operate on 80 and 160 meters. The antenna is a piece of four inch diameter, 70 feet long aluminum irrigation pipe. It is the largest amateur antenna I have ever encountered!

We could not start the project immediately since Ed lives next door to the 15th fairway of a golf course and we had to wait until the players finished their turns. We finally got started at 5:30PM when some of Ed's nabors arrived to give a helping hand. The pole was taken up and placed almost to the middle of the fairway and then one of the guy ropes was tied to the bumper of Ed's car.

I was ordered to stand under a pine tree to serve as an anchor man (I am 6'6" tall and a bit on the hefty side). Carl was general labor, anything that needed doing. My job was to pull on three guy ropes some of them passing through the branches of a tree. Ed started by backing up the car and pulling the antenna up from the horizontal. When the pole was about about 30° off horizontal some of the tree branches reached out and tangled up with the guy ropes. It took some doing to get this mess straightened out with Carl maneuvering in gnome-like fashion to untangle tree branches with a ten foot pole with a hook in one end. Ed sure anticipated this problem by having that pole handy.

So here is the picture. I am stationed at the base of the pine tree with needles and sap dropping all over me while I'm hanging on to three guy ropes and pulling like a madman. Ed is running back and forth to his car, moving it first out towards the street (his xyl directing traffic), and then closer to the garage. Then there is Carl trying to feverishly get the tree branches to let loose of the guy ropes. The nabors are making sure that the antenna doesn't slip away; at the same time keeping it clear of other trees. Everyone trying their best to get that stick up in the air even if it is in "Chinese Fire Drill" fashion!

About one and a half hours later the word came down to secure everything. It was almost dusk when I finally stepped out of the pine jungle and caught my first glimpse at a really impressive sight- the struture standing straight and true on its large glass insulator. When Ed's nabors left, we listened to W3AJS tell a few stories about the old days including some of the escapades of W3IA and W3CL that could be the subject of another story sometime. We were both glad that we helped to put up another one of Keeners Follies!

Editors note: They must have done a good job because Ed checked in on the Grey Haired Net on 160 meters on Tuesday evening August 22nd.

THE MT. AIRY VHF RADIO CLUB, INC. PRESENTS

HAMARAMA '78

AND

MID-ATLANTIC STATES VHF CONFERENCE

SEPTEMBER 30 - OCTOBER 1, 1978

THE CONFERENCE

**SATURDAY—Sept. 30, 1978 —9 A.M. to 5 P.M. FIESTA MOTOR LODGE EASTON RD.
(RT. 611—EXIT 27—PA. TURNPIKE)
WILLOW GROVE, PA. 19090**

ALL DAY VHF PROGRAM by well known VHF'ers

COCKTAIL HOUR AND GET-TOGETHER AT 6:30 P.M. (Cash Bar) Visit the **PACK-RAT** hospitality suite.

BUFFET DINNER AT 7:30 P.M.— \$9.00—Special rates for rooms overnight.

ADVANCE REGISTRATION INCLUDES ADMISSION TO HAMARAMA— \$3.50

THE FLEA MARKET

SUNDAY—OCTOBER 1, 1978—8 A.M. to 4 P.M.—RAIN or SHINE

**AMATEUR RADIO EQUIPMENT
ELECTRONIC PARTS—SURPLUS**

**BUCKS COUNTRY DRIVE-IN THEATER
EASTON RD. (RT. 611 4 miles north
of Willow Grove, Pa.)
WARRINGTON, PA.**

DOOR PRIZES

FOOD AND DRINK AVAILABLE—NEARBY MOTELS AND RESTAURANTS

REGISTRATION— \$2.00

**TAILGATING—\$2.00 per space
(Bring your own table)**

TALK-IN

W3CCX

222.98 / 224.58

52

60-00

63-03

Advance registration for the *VHF Conference* must be in the hands of the chairman by **Sept. 15, 1978**

Name _____ Call _____

Number of Tickets _____

Address _____

City _____ State _____ Zip _____

Registration **\$3.50**

Motel Registration form required _____

Buffet **\$9.00**

INFORMATION

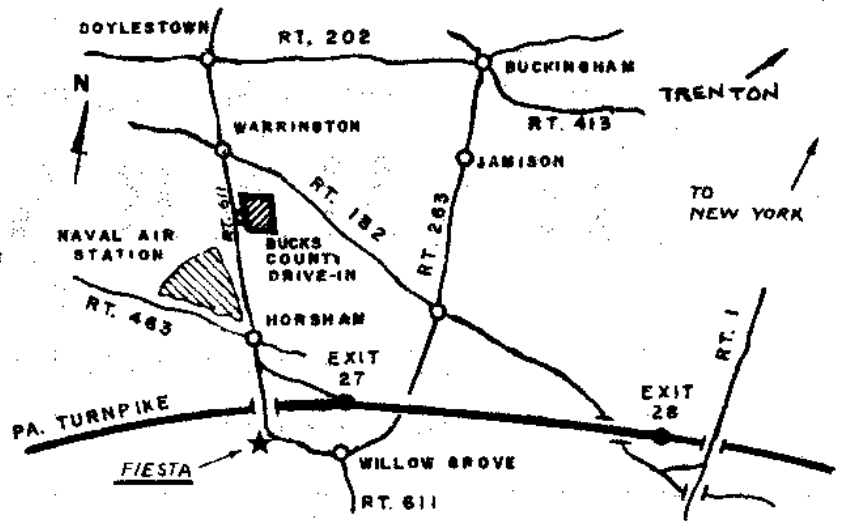
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